

Fig. 1

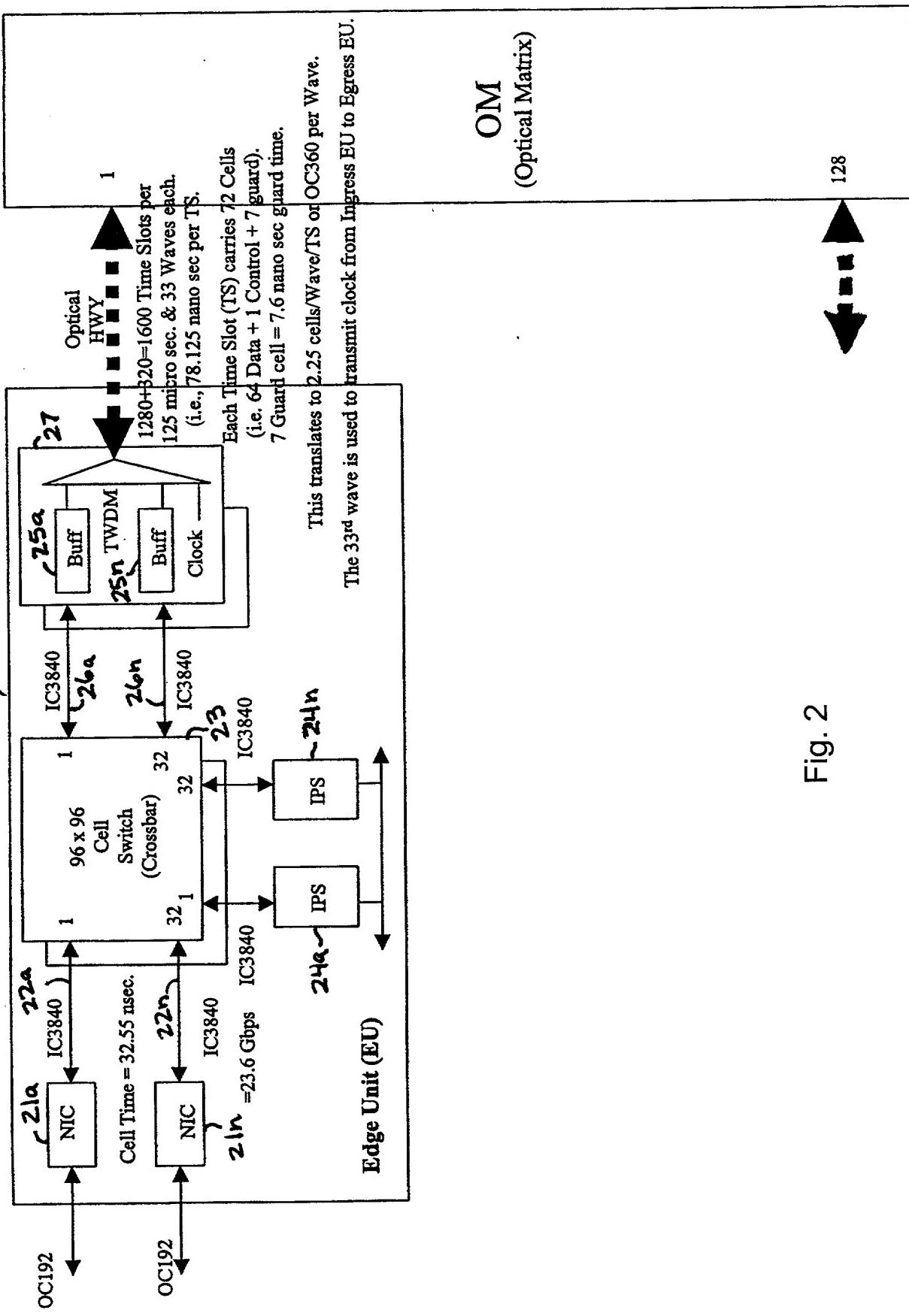


Fig. 2

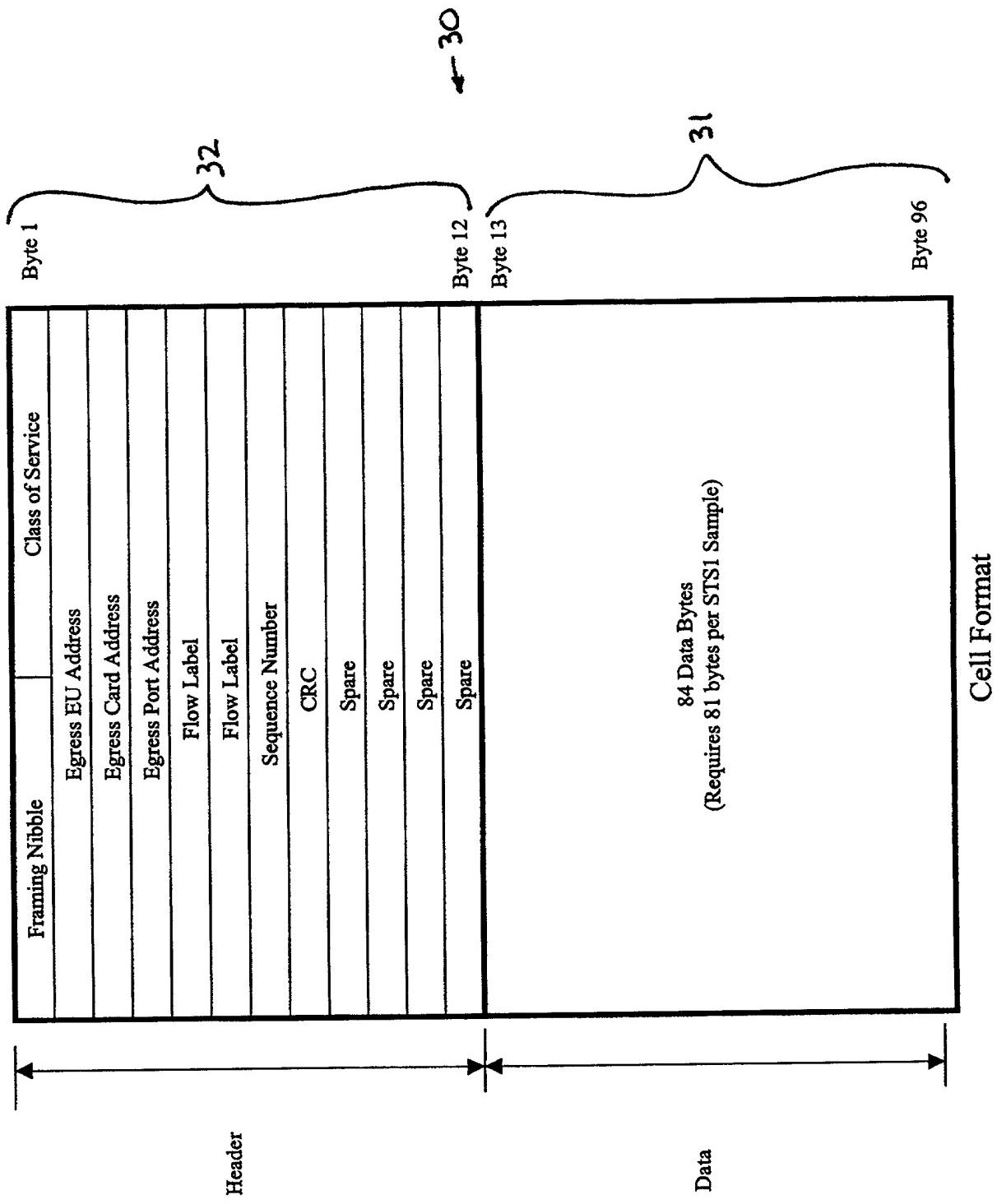
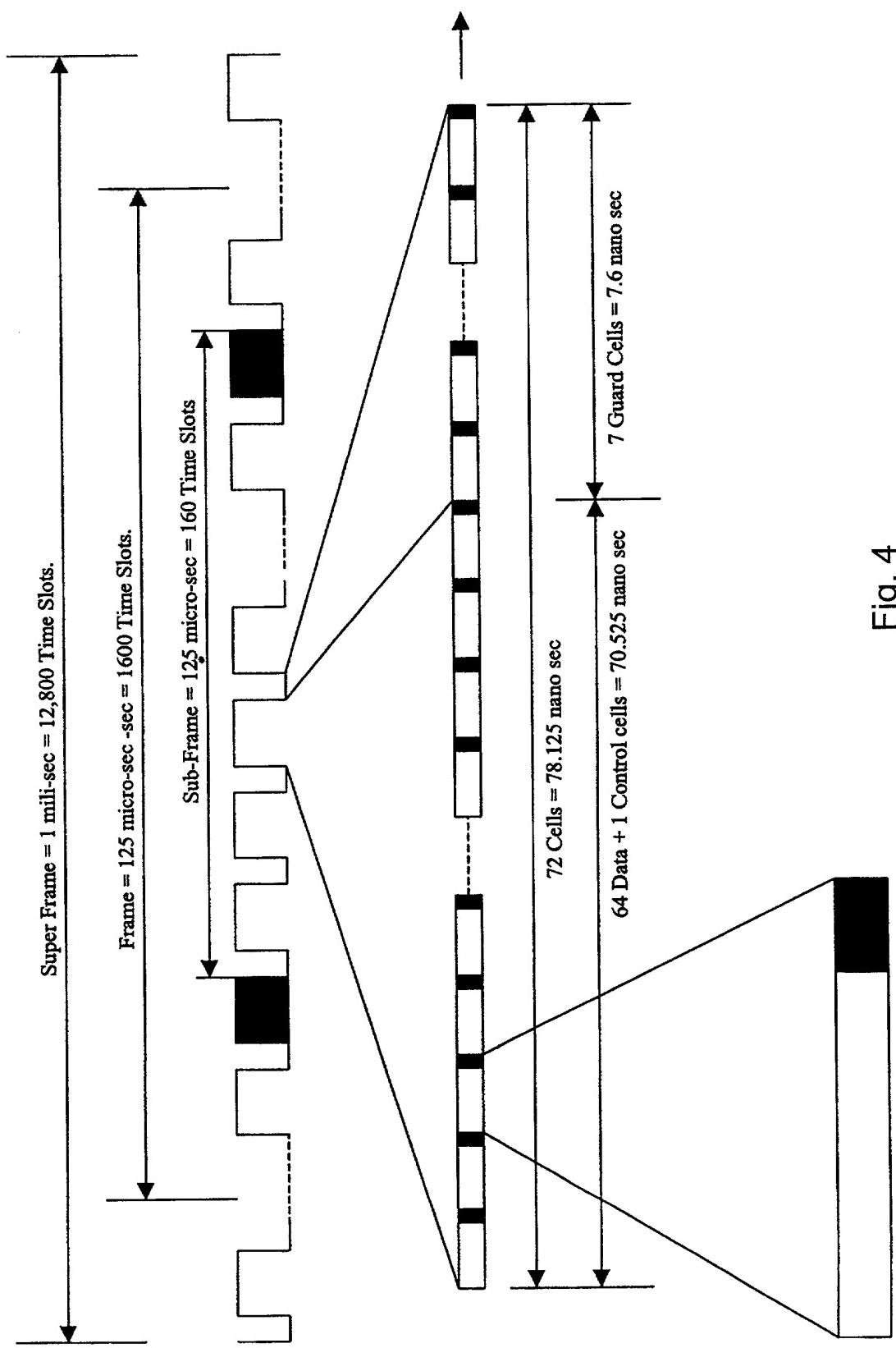
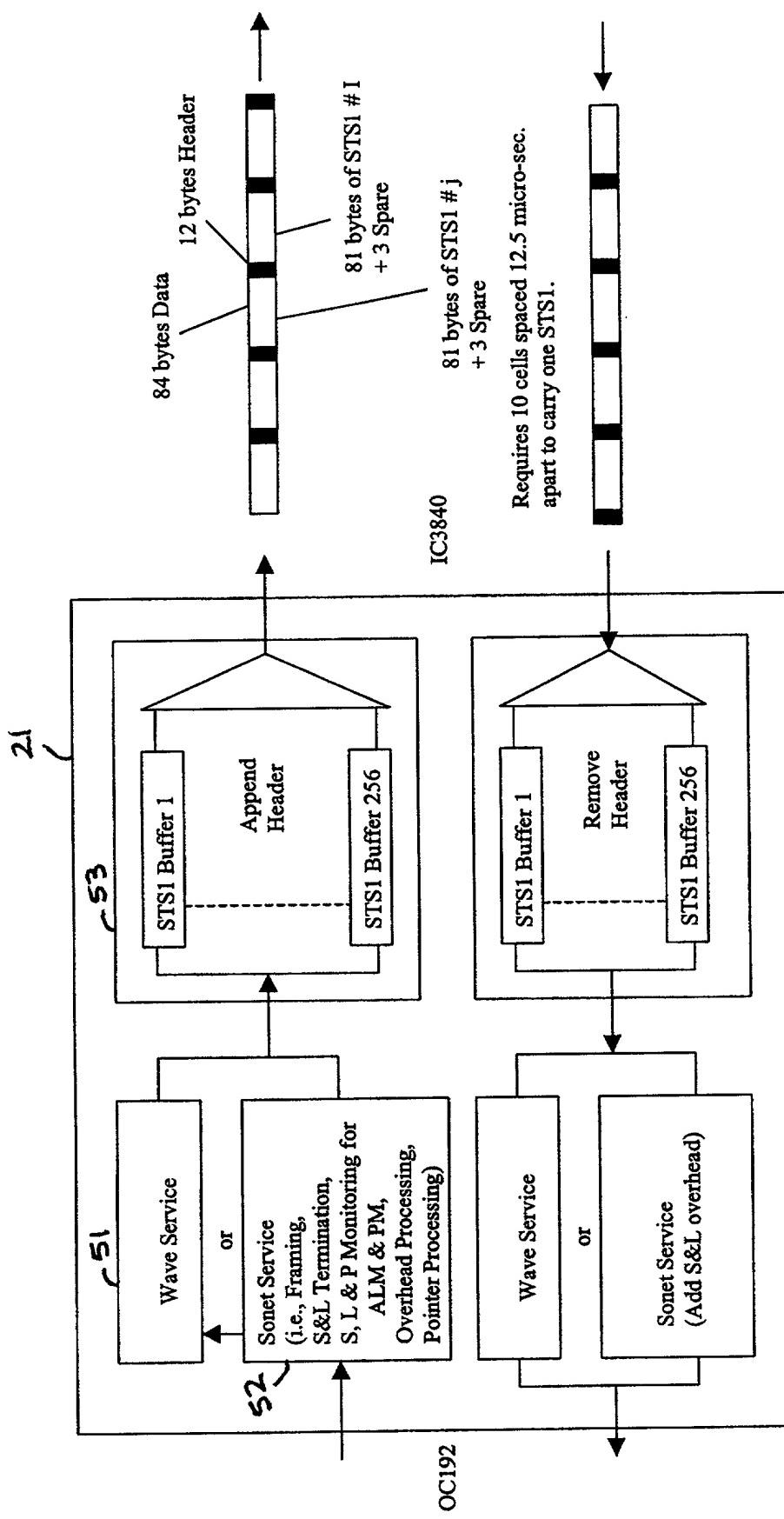


Fig. 3



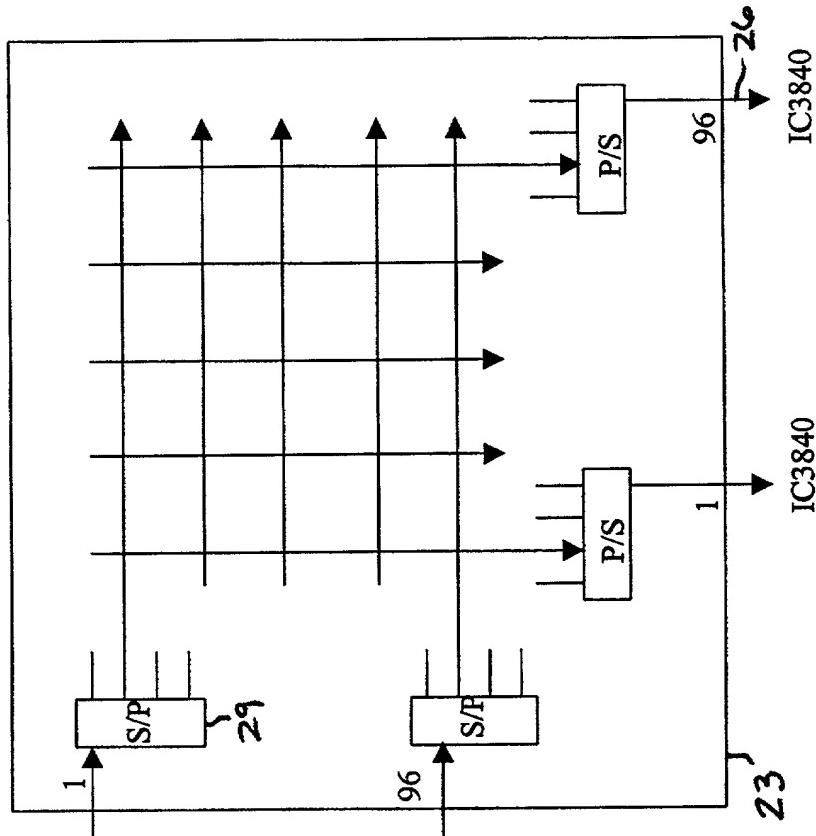
**Fig. 4**



Network Interface Card (NIC)

Fig. 5

### A Simple Cell based Crossbar Switch



Cell Time = 32.55 nano-sec.

Cell size = 96 bytes x 8 = 768 bits

Bit time = 42.39 pico-sec.

Set up the cross connection for 32.55 nano-sec. when 768 bits flow through.

The optional S/P logic, reduces the bit rate through the Cell Switch, but increases the number of Cell Switch Planes.

**96 x 96 Cell Switch (CS96)**  
(Prefer 128 x 128 Cell Switch for Future Services)

Fig. 6

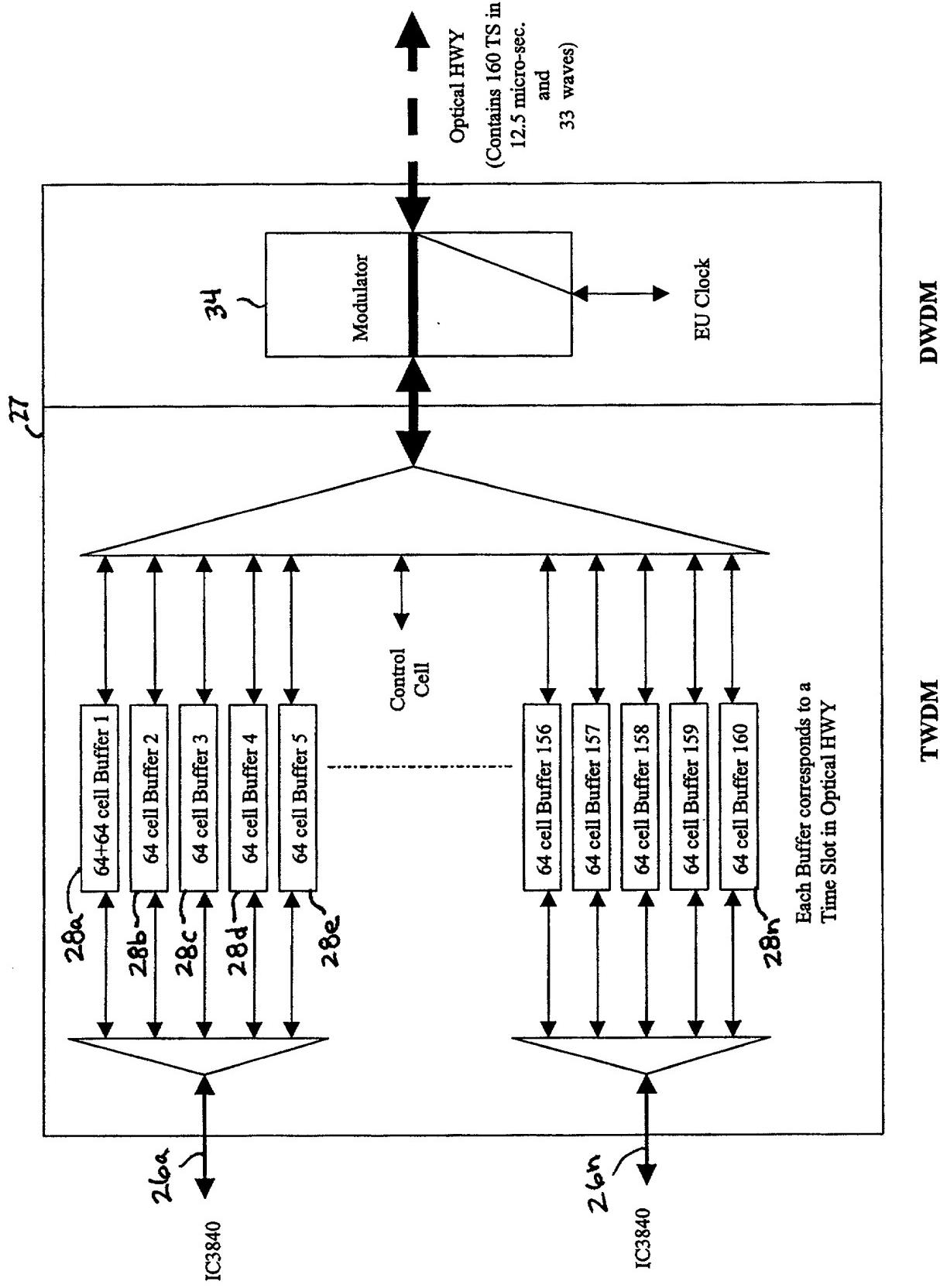
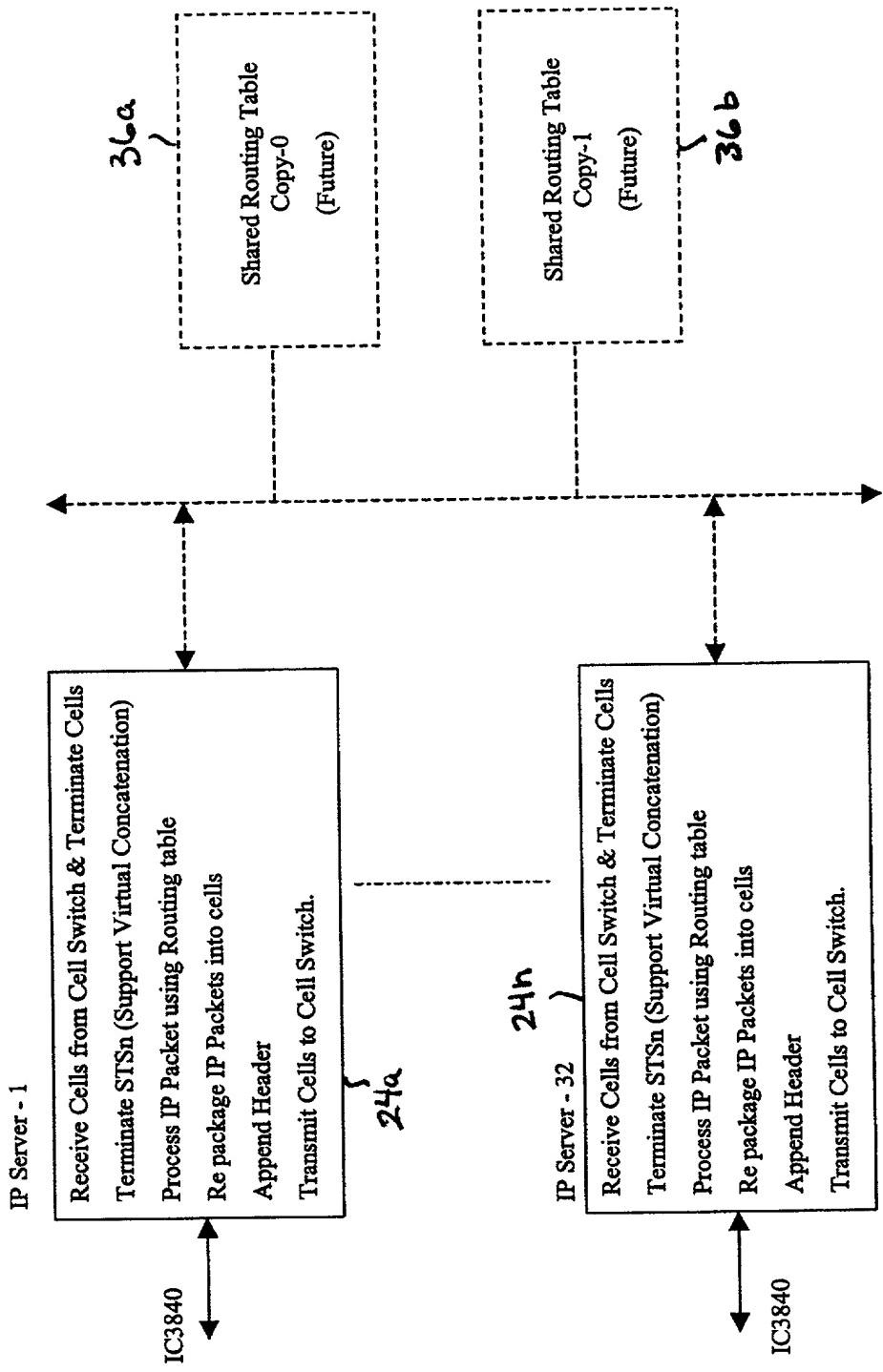


Fig. 7



IP Server (IPS)

8  
Fig.

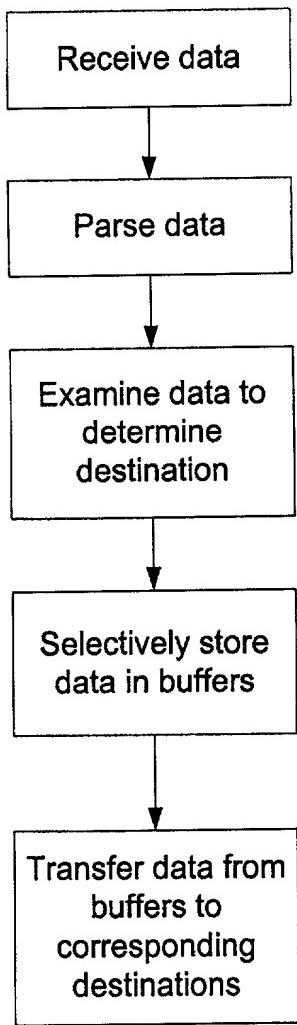


Fig. 9